

Patent Claims

1. An insect trap, in particular for flying and/or pest insects, with a planar or curved light surface region (12) surrounding at least one dark contrast surface region (16) and with means for holding, trapping and/or killing attracted insects (52) on a surface (18) of the insect trap (10) and/or in its interior (20).

2. An insect trap, in particular for flying and/or pest insects, with an output surface (14) for producing a weak air stream (22) passing out through the surface (14) and with means for holding, trapping and/or killing attracted insects (52) on a surface (18) of the insect trap (10) and/or in its interior (20).

3. The insect trap according to claim 1 and/or 2, characterized in that at least the light surface region (12) or parts of it are covered with glue and/or an insecticide.

4. The insect trap according to at least one of claims 1 to 3, characterized in that at least the dark contrast surface region (6) or parts of it are covered with glue and/or an insecticide.

5. The insect trap according to at least one of claims 1 to 4, characterized in that the surface (18) or parts of it are energized with electricity.

6. The insect trap according to at least one of the preceding claims, characterized in that the weak air stream (22) coming from the output surface (14) has an average flow speed of about 2 to 100 cm/sec.

7. The insect trap according to at least one of the preceding claims, characterized in that the weak air stream (22) coming from the output surface (14) has an average flow speed of about 3 to 50 cm/sec.

8. The insect trap according to at least one of the preceding claims, characterized in that the weak air stream (22) coming from the output surface (14) has an average flow speed of about 5 to 20 cm/sec.

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9. The insect trap according to at least one of the preceding claims, characterized by an attractant (40) that is emitted by the trap (10) and that draws the insects (42) to be trapped.

10. The insect trap according to claim 9, characterized in that the attractant (40) is emitted by the light surface region (12).

5 11. The insect trap according to claim 9 or 10, characterized in that the attractant (4) is a coating of the upper surface (18) or parts thereof and is in a predetermined concentration.

12. The insect trap according to claim 11, characterized in that the attractant (40) is provided in a glue layer.

10 13. The insect trap according to one of the preceding claims, characterized in that the output surface (14) is a light surface region (12) surrounding at least one dark contrast surface region (16).

15 14. The insect trap according to at least one of the preceding claims, characterized in that the light surface region (12) has an area of at least 30 cm².

15. The insect trap according to one of the preceding claims, characterized in that at least one intake opening (24) for drawing in attracted insects (42) is provided near the trap (10).

16. The insect trap according to at least one of the preceding claims, characterized in that a plurality of intake openings (24) are provided around the light surface region (12) or around the output surface (14).

5 17. The insect trap according to one of the preceding claims, characterized in that an annular intake opening (24) surrounds the light surface region (12) or the output surface (14).

10 18. The insect trap according to one of the preceding claims, characterized in that the dark contrast surface region (16) is a dark intake passage (26).

19. The insect trap according to one of the preceding claims, characterized in that a flow speed at or in the intake passage (26) or at or in the intake opening (24) is at least 1 m/sec.

15 20. The insect trap according to one of the preceding claims, characterized by a flow speed at or in the intake passage (26) or at or in the intake opening (24) is at least 2 m/sec.

20 21. The insect trap according to one of the preceding claims, characterized by a blower (3) provided in the trap for providing the intake flow (24) in the intake passage (25) or in the

intake opening (24) and/or the weak air stream (22) from the output surface (14).

22. The insect trap according to one of the preceding claims, characterized by a device inside the trap (10) for uniformly supplying the attractant (4) to the weak air stream (22).

23. The insect trap according to one of the preceding claims, characterized in that the output surface (14) is a mesh (15).

24. The insect trap according to claim 23, characterized in that the mesh (15) has a mesh size that is smaller than the insects to be caught in the trap (10).

25. The insect trap according to one of the preceding claims, characterized in that upstream of the fan (30) there is in the intake passage (26) another mesh.

26. The insect trap according to one of the preceding claims, characterized in that an insert is provided in the intake passage (26) upstream of the fan (30).

27. The insect trap according to one of the preceding claims, characterized in that the trap (10) is hollow and

cylindrical and has at one end the output surface (14) and the dark intake passage (26) in it.

28. The insect trap according to one of the preceding claims, characterized by an outwardly curved end panel (32) of the hollow cylindrical trap (10).

29. The insect trap according to one of the preceding claims, characterized by an upwardly directed end panel (32) on the hollow-cylindrical trap (10).

30. The insect trap according to one of the preceding claims, characterized by a closed floor (34) carrying means for supplying the attractant (40).

31. The insect trap according to one of claims 1 to 26, characterized in that the trap (10) is spherical with an outer surface on which are distributed intake passages (26).

32. The insect trap according to claim 31, characterized in that at least part of an outer ball surface (36) is formed as the output surface (14).

33. The insect trap according to claims 31, characterized in that generally the entire outer ball surface (36) is formed as the output surface (14).

34. The insect trap according to one of the preceding claims, characterized in that a cover (44) is provided spaced above the trap (10).

35. The insect trap according to one of the preceding
5 claims, characterized by a freely hanging insect trap (10).